

ISO TC 211 Metadata Standards

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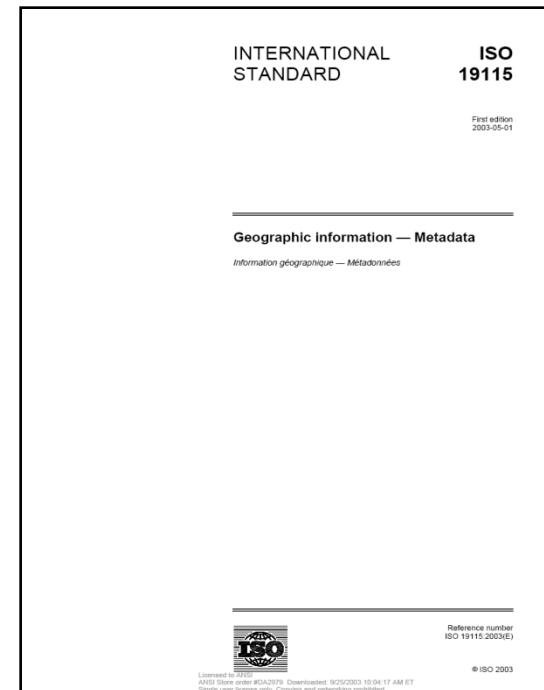
Project leader ISO 19115 Revision

Existing ISO TC 211 Metadata standards

- ISO 19110:2005 Methodology for feature cataloguing
- ISO 19113:2002 Quality principles
- ISO 19114:2003 Quality evaluation procedures
- ISO 19115:2003 Metadata
- ISO 19115-2:2009 Metadata -- Part 2: Extensions for imagery and gridded data
- ISO 19119:2005 Services and extensions for service metadata model
- ISO 19138:2006 Data quality measures
- ISO 19139:2007 Metadata-XML schema implementation

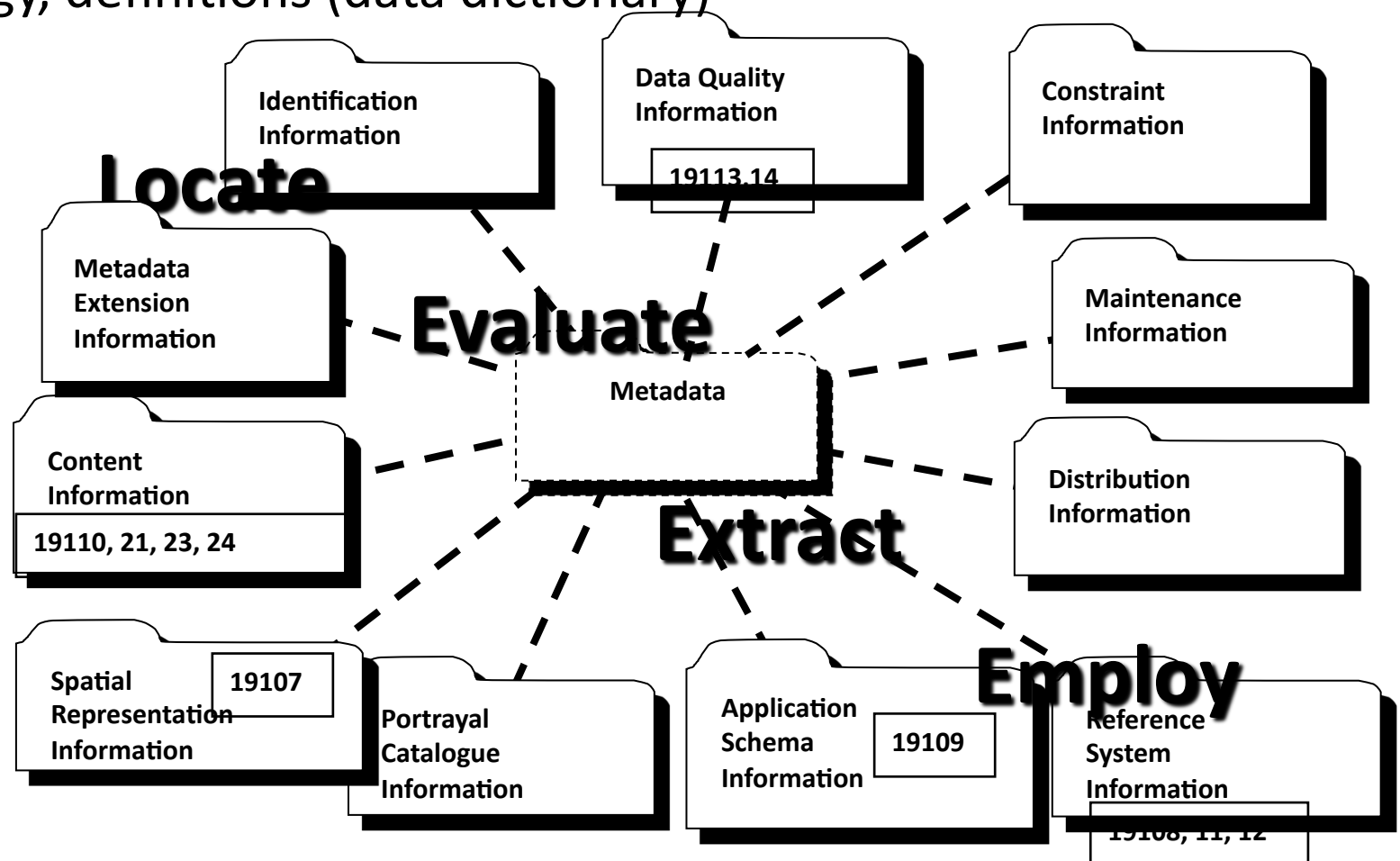
ISO 19115:2003

- ...the schema required for describing geographic information and services.
- ...information about the identification, the extent, the quality, the spatial and temporal schema, spatial reference, and distribution of digital geographic data.
- ...applicable to the cataloguing of datasets, clearinghouse activities, and the full description of datasets for a wide range of geographic applications.
- ...applicable to geographic datasets, dataset series, and individual geographic features and attributes
- ...may be used for other forms of geographic data such as map, charts, textual documents



Metadata Packages

- Defines *metadata elements*;
- Provides a *schema* (UML);
- Establishes a common set of metadata terminology, definitions (data dictionary)



ISO 19115 Implementation

The ISO 19115 “Brand”

- Australia-New Zealand Profile
- North American Profile of ISO 19115
- An ISO 19115 Discovery Metadata Profile For Spatial And Non Spatial Environmental Datasets
- ISO19115/ISO19119 Application Profile for CSW 2.0
- C3Grid ISO 19115 Metadata Profile
- Marine Community Metadata Profile of ISO 19115
- A metadata profile for precision agriculture based on ISO 19115 standard.
- WMO Core Profile of the ISO 19115 Metadata Standard
- Transformation of HDF-EOS metadata from the ECS model to ISO 19115-based XML
- Draft African metadata profile of ISO19115
- NOKIS – an ISO 19115 Based Metadata System
- The UDK and ISO 19115 Standard
- Latin American Profile
- ...

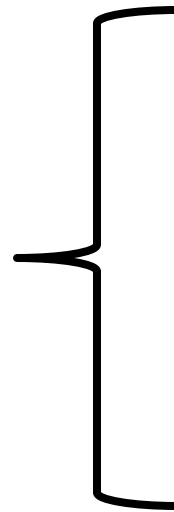
ISO 19115 Tools

Many open source and proprietary metadata editors have been developed

- CATMDEdit
- terraCatalog
- ArcCatalog
- ArcGIS Server Portal
- GeoNetwork
- IME
- M3CAT
- MetaD
- MetaGenie
- Parcs Canada Metadata Editor
- Mapit/CADit
- NOKIS Editor
- ...

ISO 19115 Revision

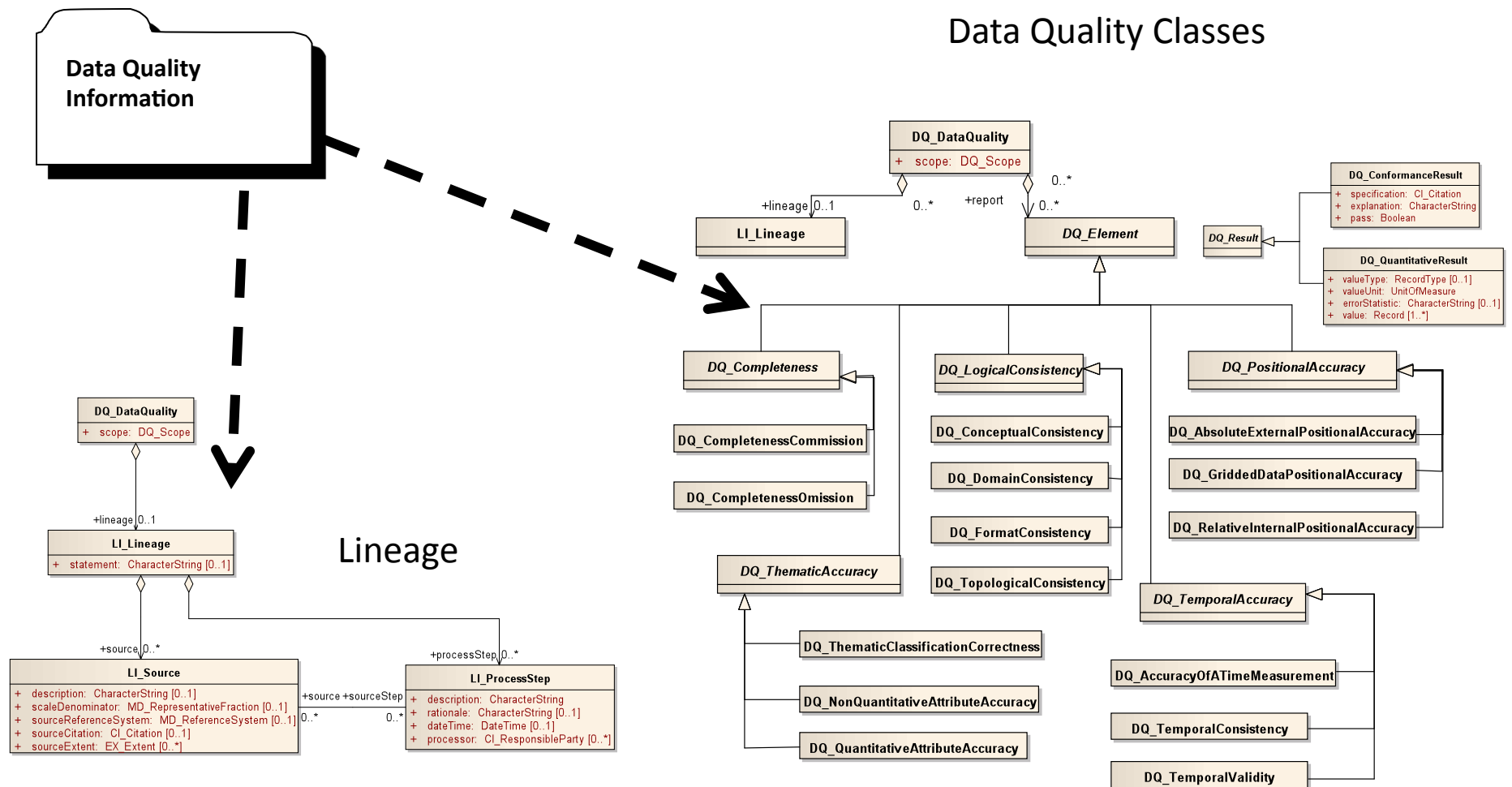
ISO 19115-1 Metadata
- Fundamentals



- ISO 19115:2003
Metadata
- ISO 19119:2005
Services and
extensions for service
metadata model (Part)

ISO 19115:2003 Data Quality Information

Data Quality Classes



New standards development: ISO 19157 Data Quality

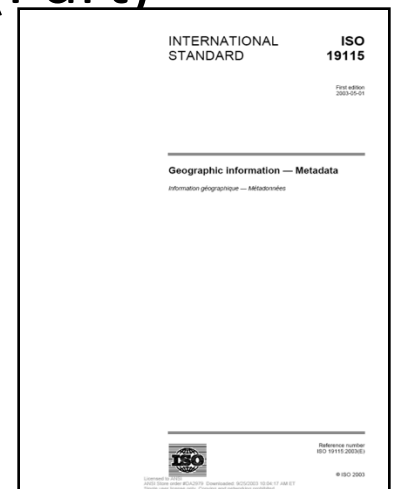
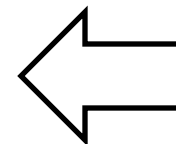
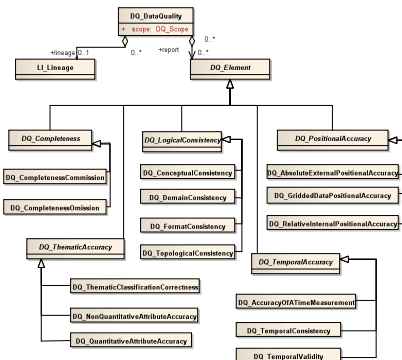
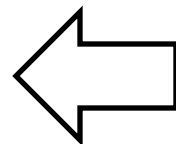
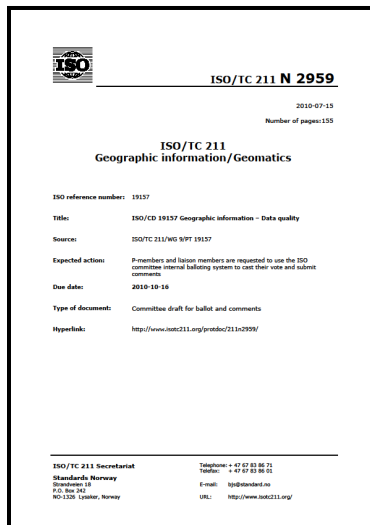
ISO 19157

ISO 19113:2002 Quality principles

ISO 19114:2003 Quality evaluation
procedures

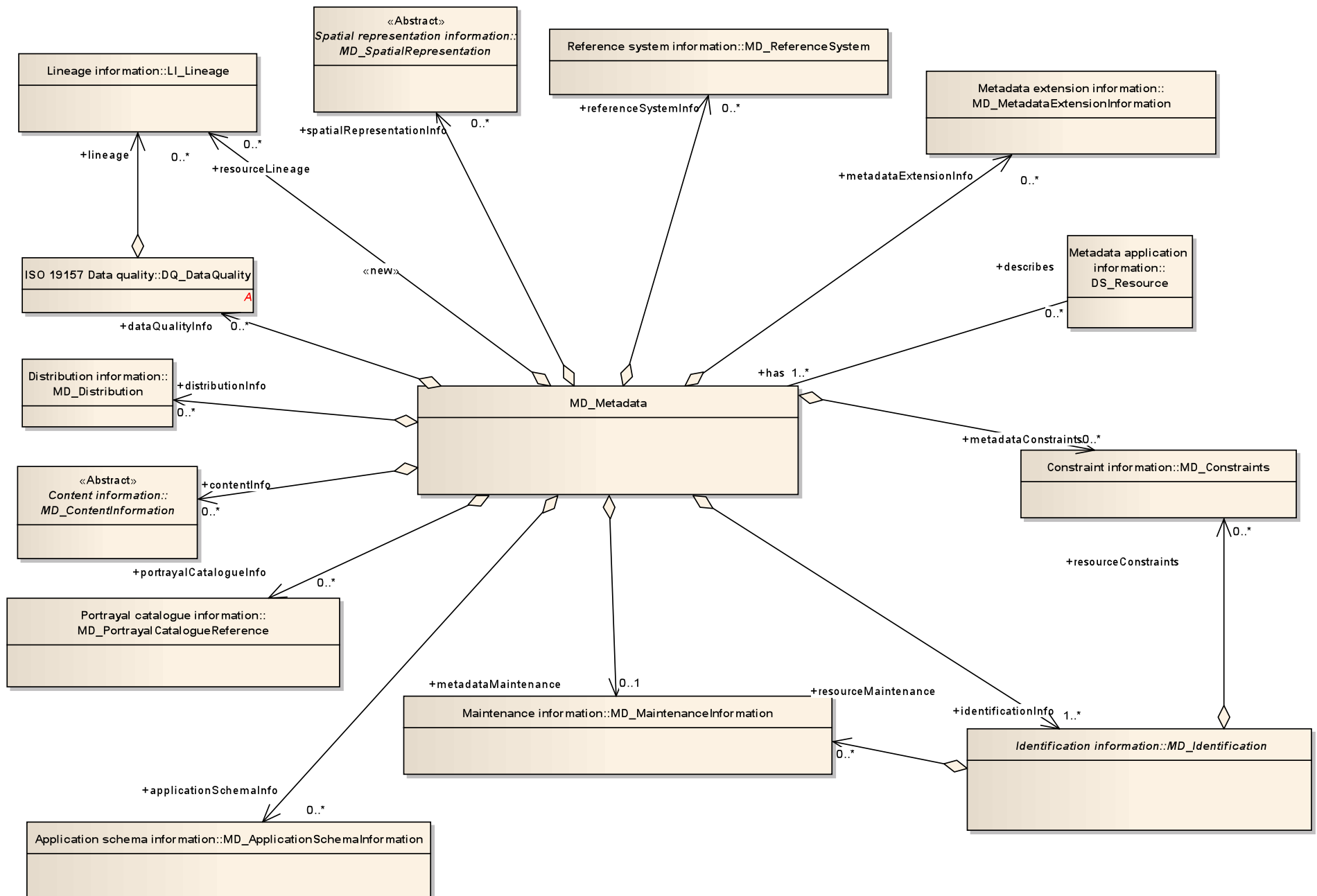
ISO 19138:2006 Data quality measures
(Part)

ISO 19115:2003 Metadata (Part)

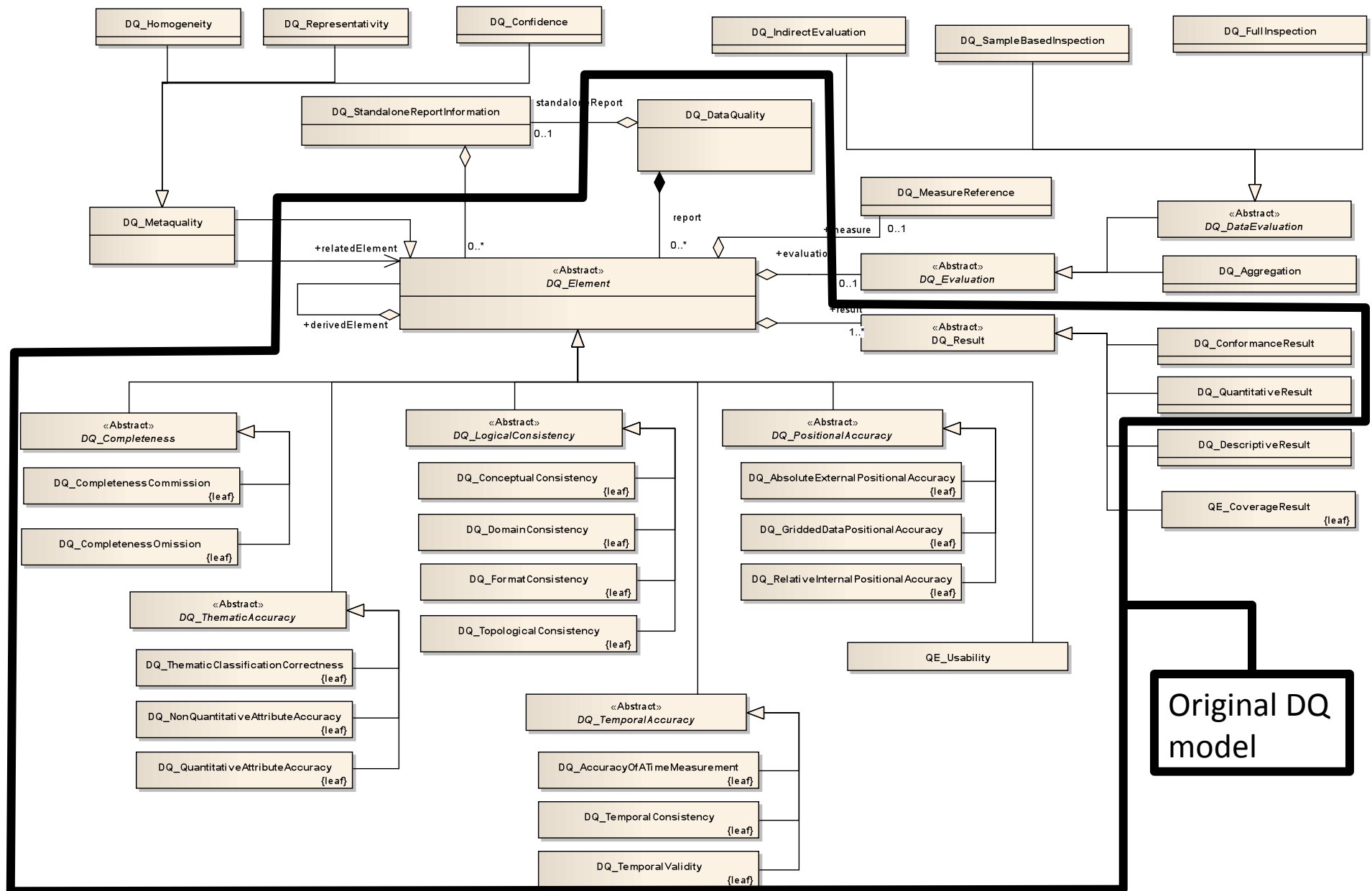


ISO/WD 19115-1(revision)

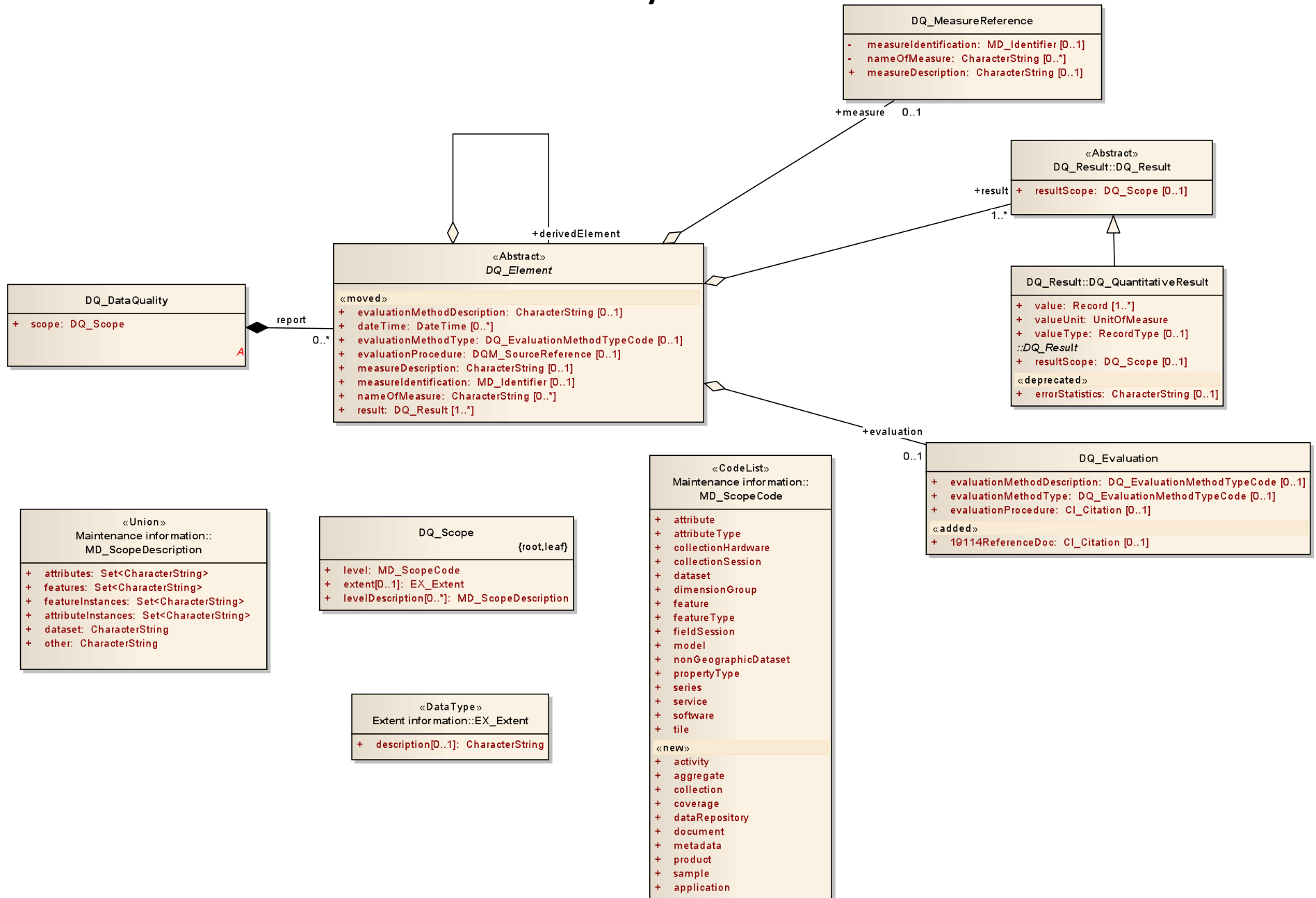
Metadata schema



Full Data Quality Model from ISO/CD 19157

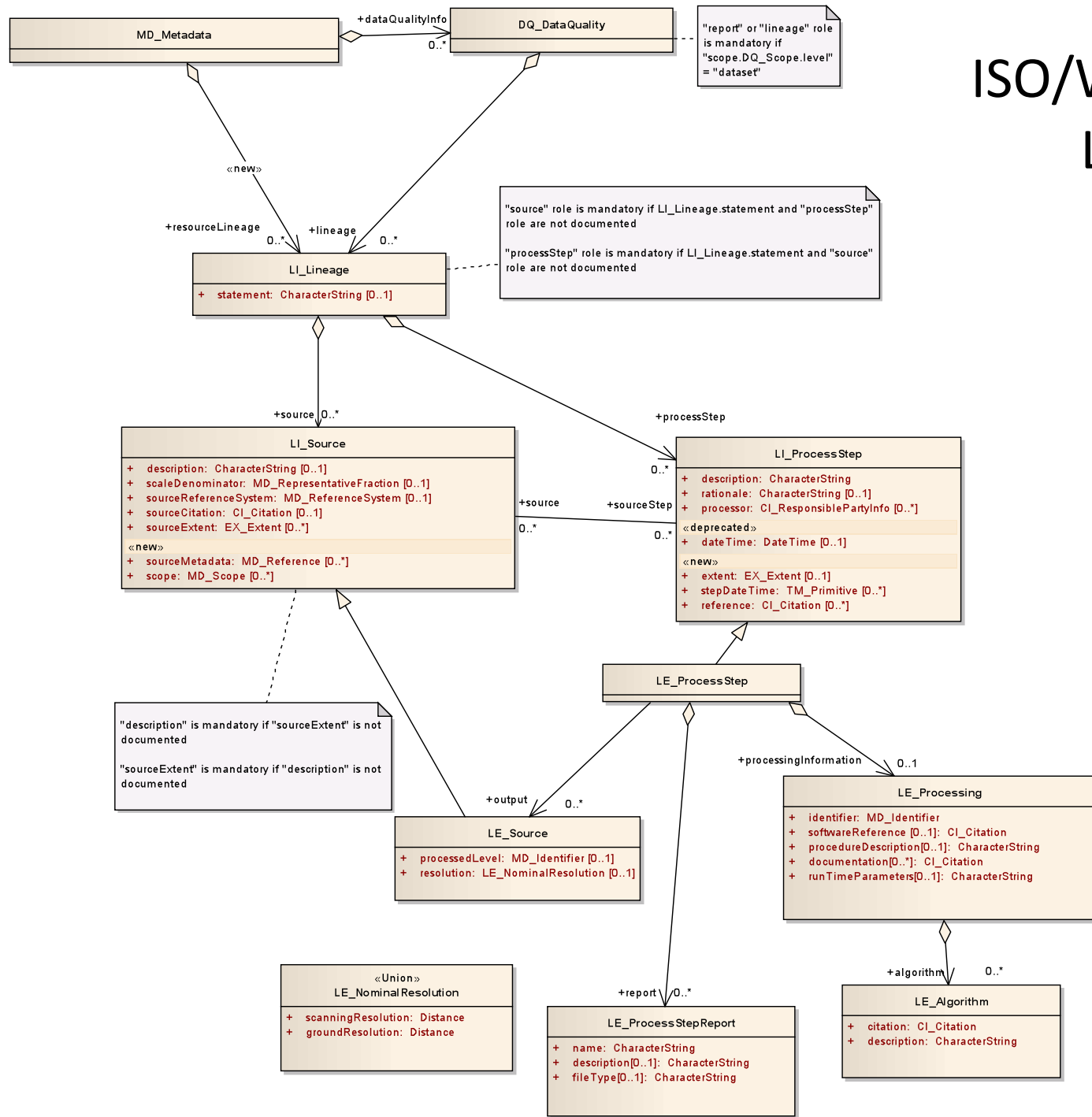


Data Quality Element



ISO/WD 19115-1

Lineage



ISO TC 211 Metadata Standards Schedule

- ISO 19157 Data Quality
 - CD 2010-7
 - DIS 2001-06
 - FDIS 2012-06
 - IS 2013-01
- ISO 19115-1 Metadata – Fundamentals
 - CD 2011-01
 - DIS 2011-11
 - FDIS 2012-11
 - IS 2013-05